Product Specification

COB LED Flexible Strip
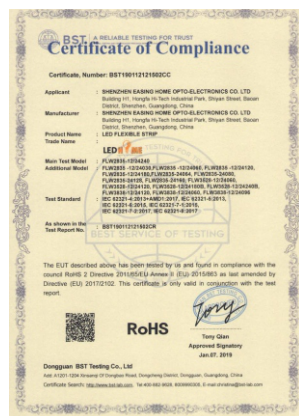
FLCOB-CV24608-10mm

Made by	Checked by	Date	Product
Tony	Mike	2020.06.22	Led strip

Company Profile:

Based in Shenzhen, PRC. Since 2009, Shenzhen Easing Home Opt-electronics Co Ltd is passionate about lighting and technology, and has rapidly grown to be a leading supplier for LED strip, LED profile, LED linear light, LED silicon neon flex and other relative accessories to clients for full range product & service. Currently we Easinghome LED has a professional lighting design team of engineers and a number of automated production lines.our products have been sold to more than 80 countries and areas. We are continuing to develop the new energy conservation and environment protection, high efficient product for you.

Shenzhen Easing Home Opto-Electronic .,Co Ltd.

⚲ ADD 1: No 196, Tangtou Rd, Shiyan Street, Baoan District, Shenzhen, Guangdong, China

　ADD 2: Building No.3, 2nd Baoshi Road, 2nd Tianliao Industrial Area, Gongming Street,

　　Guangming New District,Shenzhen City 518106, Guangdong Province, China

⊕ www.easinghome.com　　　www.ledlits.com　　　www.ledhomex.com

✉ contact@easinghome.com

☏ 86-0755-27640099

COB LED strip is designed for spots-free led linear lighting, suitable with any kinds of led profile and silicon tube.
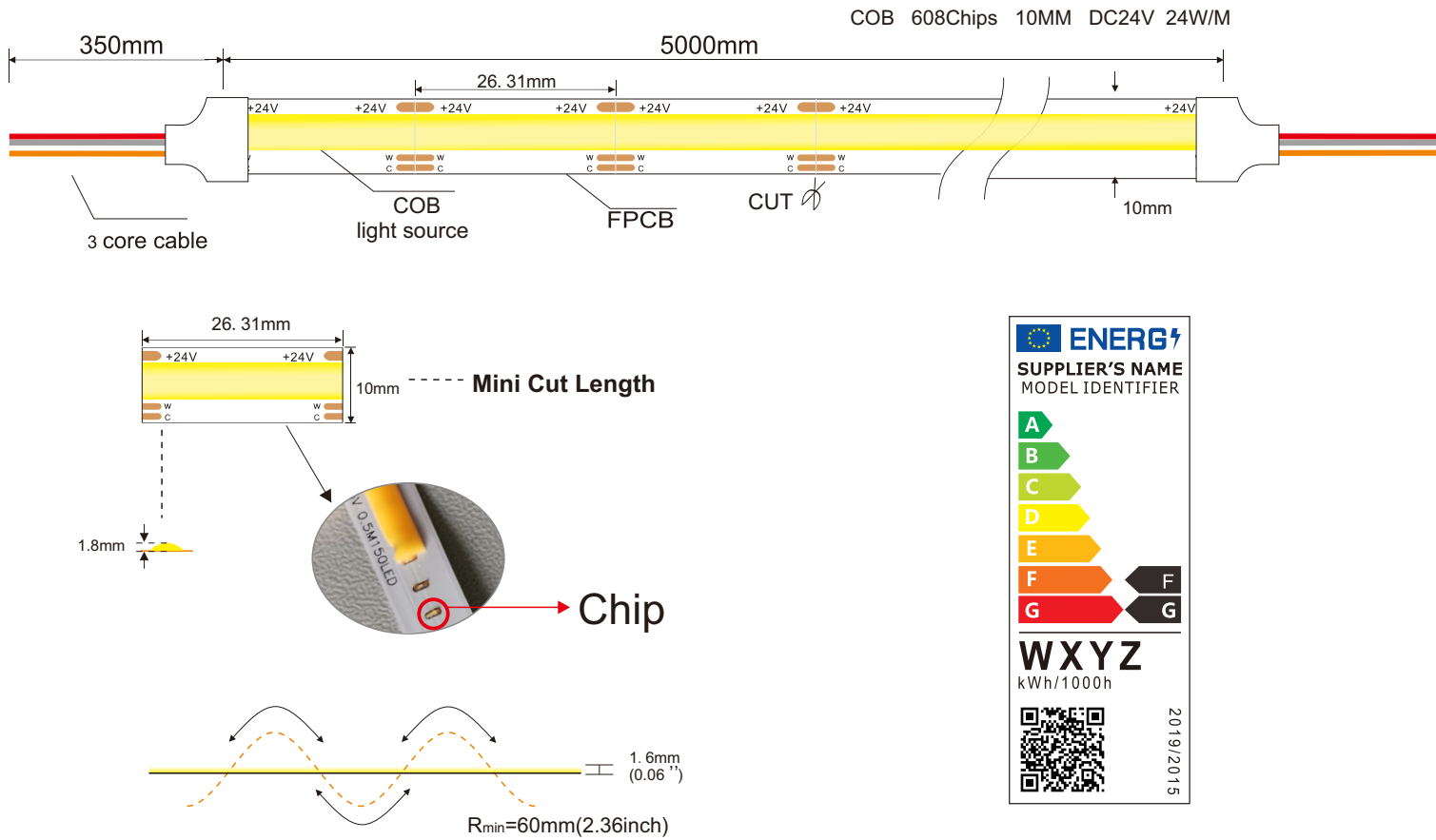
Feature

1. dots-free with uniform lighting

2. E   cacy Lumen upto 120lm/watt

3. Cuttable and soderless connection with crystal connector

Light Source

|	
wire inside chips	99.99% purity golden (1.0um or above diament)
chip size	big size chip with high output lumen
phosphor powder	Mitsubishi or Intermatix phosphor powder
chip brand	Epistar or brand chip
LED lead frame	100% purity copper LED lead frame
PCB	35U cooper PCB/ double side PCB/ back side of PCB is protection layer
Bin code	one order, one small BIN Code only, and ledhome can promise you sereral orders from same one Bin
3M tape	300P genuine 3M tape /3M VHB tape
age testing	ledhome strip take at least 8hours aging-test
QC Checking	3 times QC checking(SMT + PCB jointing+ after aging testing) before packing

Technical Drawing

COB 608Chips 10MM DC24V 24W/M

350mm | 5000mm

26. 31mm

+24V +24V +24V +24V +24V +24V +24V +24V

W/C W/C W/C W/C

3 core cable

COB light source

FPCB

CUT

10mm

26. 31mm

+24V +24V

10mm

W/C W/C

1.8mm

Mini Cut Length

Chip

1. 6mm (0.06")

Rmin=60mm(2.36inch)

Basic Parameter

P/N	LED QTY (PCS/M)	Votage	Power W/m	Color	PCB size (mm)	Lumen lm/w	Lumen CRI>80	Energy efficiency class (IP20)	
								Ra>80	Ra>90
FLCOB-CV24608-P10CCT	608	CV24V	24W	WW	10	101	2424LM	F	G
				CW		105	2520LM		
				WW-CW		101-105	2424-2520LM		

Note: All above parameters were given based on naked strip without additional heat sink or housing.
Customized size or customized coloer temperature, pls contact us further.

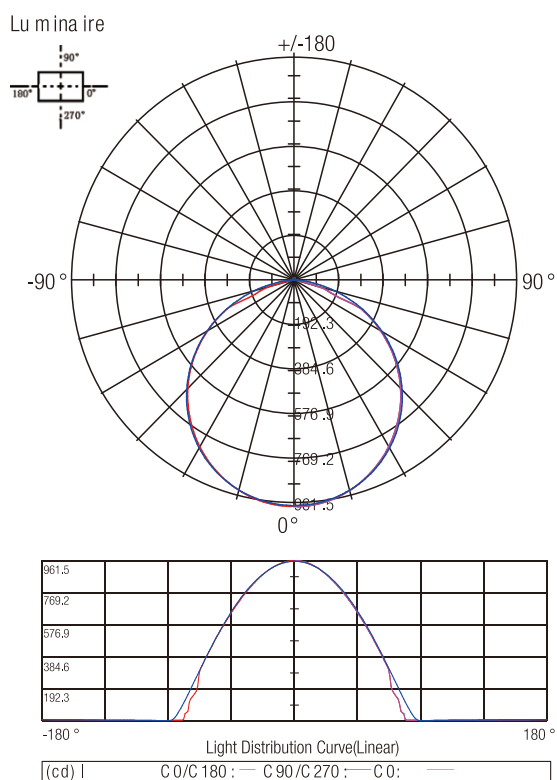# Product Parameters

Spectroscopic standard

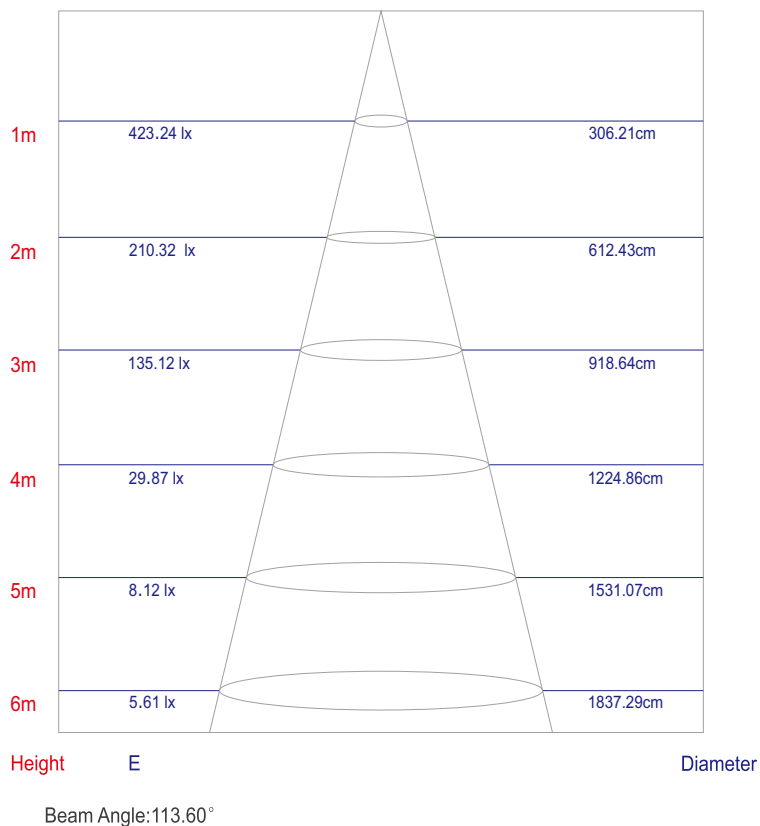Ensure customers to get the same bin for different orders by using CIE(X,Y) coordinate spectrometer
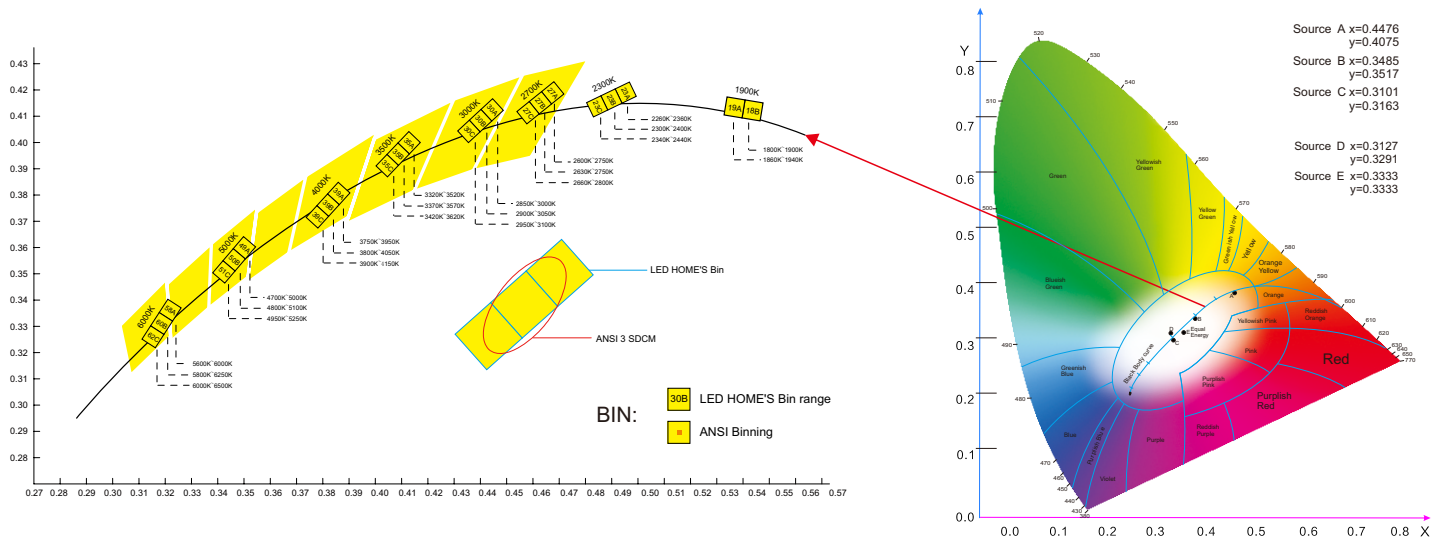
Product Specification

Item:	COB led strip	Driver:	External led driver
Qty Chips:	608chips/m	Mains voltage (V):	DC 24V
Color:	CCT(2700-6500K)	Control gear type:	CONSTANT VOLTAGE DRIVER
PCB width:	10mm	Ref:	MEANWELL
Light controller type:	0-10V/1-10V/DMX/DALI/Triac	Emergency availability:	/
Light Decay:	2% @ 6000Hours	Chip:	Epistar or other brand chips
Operating Temperature:	−25~45 degree	Light emission:	180°
Lifetime:	（Lm80) 50000 HRS @45degree	Deviation (SDCM):	3step MacAdam ellipse
Mounting:	3M adhesive tape	BIN:	ONE BIN Only
Max running length:	10meter (two side feed)	Warranty:	3 years
Luminaire in:	CLASS II/III		

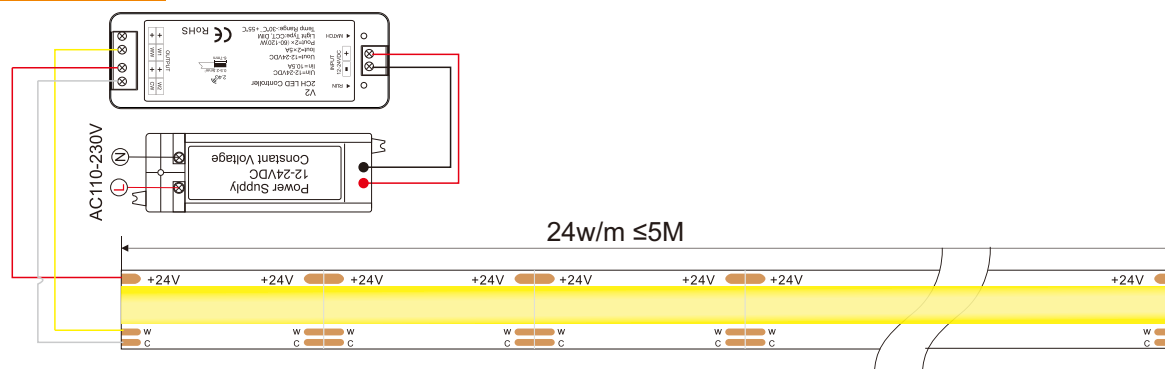## Light Distribution Curve [Unit:cd]

Luminaire

+/-180

-90°   90°

192.3
384.6
576.9
769.2
961.5

0°

961.5
769.2
576.9
384.6
192.3

-180°   Light Distribution Curve(Linear)   180°

(cd) | C 0/C 180 : ——   C 90 /C 270 ; ——   C 0: ——

Lux-Distance Curve

Height	E		Diameter
1m	423.24 lx		306.21cm
2m	210.32 lx		612.43cm
3m	135.12 lx		918.64cm
4m	29.87 lx		1224.86cm
5m	8.12 lx		1531.07cm
6m	5.61 lx		1837.29cm

Beam Angle:113.60°

Colour Rendering Index

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91	94	97	90	90	92	94	89	68	89	89	63	93	98	89

![LED HOME logo] supplier of linear lights since 2009

LED Strip Solution

+24V +24V +24V +24V +24V +24V +24V +24V

W C W C W C W C

IP20

1.6mm

LED

IP 67

LED

IP 65H

LED

CRI > 95   CRI > 80

IP 66

LED

1800 2200 2700 3000 4000 6000
K   K   K   K   K   K

IP 65

LED

IP 68 +

4.73mm

LED

2.62mm

IP 65

LED

IP 65H   2.62mm   IP 66   4.73mm

One end feed

V2 2CH LED Controller
Uin=12-24VDC
Iin=10.5A
Uout=12-24VDC
Iout=2×5A
Pout=2×(60-120)W
Light Type:CCT, DIM
Temp Range:-30℃ ~+55℃
CE RoHS

Power Supply
12-24VDC
Constant Voltage

AC110-230V

N L

24w/m ≤5M

+24V +24V +24V +24V +24V +24V +24V +24V

W C W C W C W C W C

Two ends feed

Power Supply
12-24VDC
Constant Voltage

AC110-230V

L N

V2 2CH LED Controller
Uin=12-24VDC
Iin=10.5A
Uout=12-24VDC
Iout=2×5A
Pout=2×(60-120)W
Light Type:CCT, DIM
Temp Range:-30℃ ~+55℃
RUN
MATCH
CE RoHS

24w/m ≤10M

+24V +24V +24V +24V +24V +24V +24V +24V

W C W C W C W C W C

IP Level Diagram

IP 62

IP 20

IP 66

IP 65

IP 65H

IP 66

IP 65

IP 67

IP 68

IP 68 +

IP 68PU

FPC	**IP 20**
	LED
	Non-Waterproof

PU/SILICON GLUE	**IP 62**
FPC	LED
	Anti Splash Water Tiny Size Changed Glue Dripping Process

EXTRUSIVE SILICON TUBE	**IP 65**
FPC	LED
	Anti Splash Water Tiny Size Changed No Color Shift Silicon Extrusion Process In Molding

HEAT SHTINK TUBE	**IP 65H**
FPC	LED
	Anti Splash Water Tiny Size Changed No Color Shift **HEAT SHTINK TUBE**

SILICON TUBE	**IP 66**
FPC	LED
	Anti Spray Water Tiny Color Shift Silicon Tube Process

PU/SILICON GLUE	**IP67**
SILICON TUBE	LED
FPC	
	Immerse In Water For Short Time U-Shape Tube+Glue Pouring Process

PU/SILICON GLUE	**IP68**
SILICON TUBE	LED
FPC	
	Immerse In Water For Long Time □-Shape Tube+Glue Injected Process

EXTRUSIVE SILICON TUBE OR PU	**IP68+/PU**
FPC	LED
	Immerse In Water For Long Time Silicon Extrusion Process In Molding

Installation Diagram:

1. connection with CCT controller
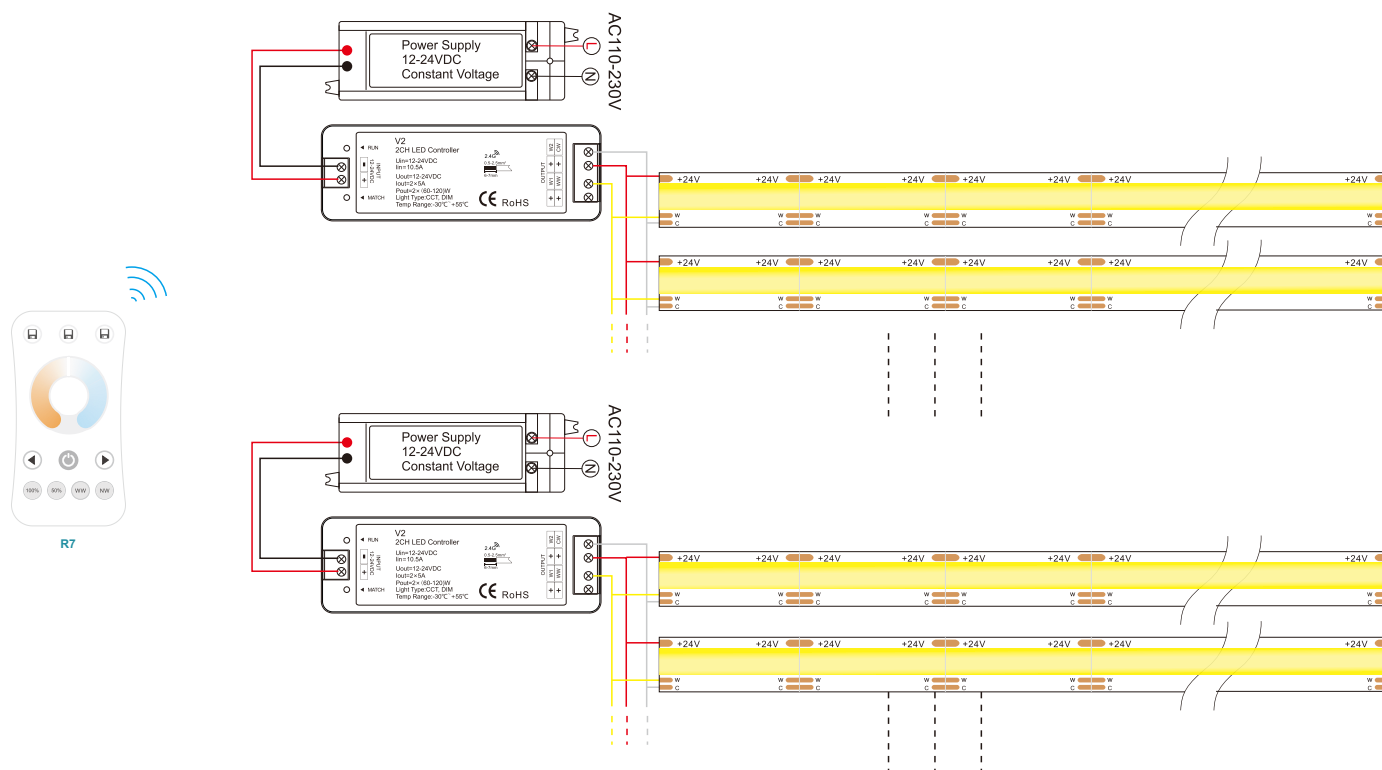
Installation
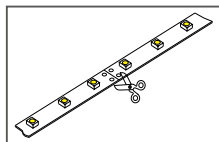
1.Cut in specific location
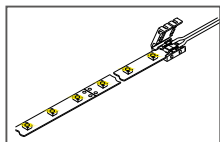
2.Put the PCB in the space between clip and connector,make the clips exactly aim at welding point
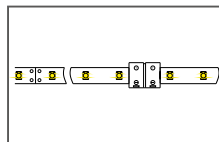
3.Close the cover of connector
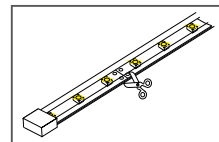
1.Cut in specific location
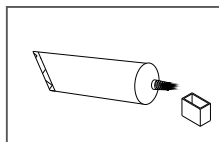
2. Infuse the gel in the end cap
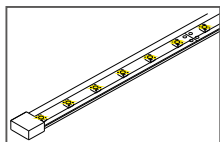
3.connect the end cap and wait for air drying
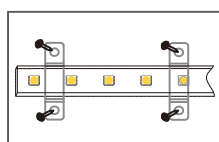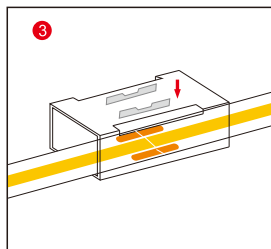

1.Install with clips
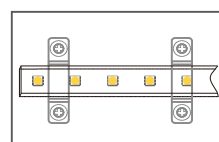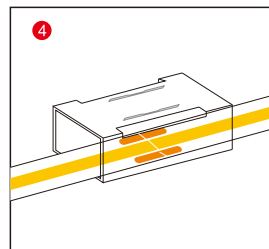

2.Fix with screws

1.STRIP TO STRIP INSTALLATIONS
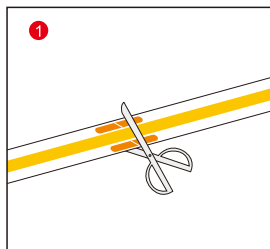
1. Cut the light strip from the cut point
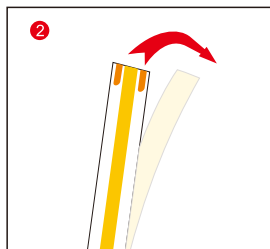
2. Tear or the 3M glue behind the light strip

3. Put the COB light strip inside the crystal connector and press the iron piece down.

4. Test the light strip after pressing down the iron sheet, the installation is complete

2.STRIP TO WIRE INSTALLATIONS
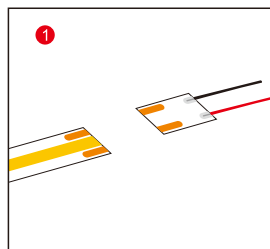
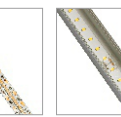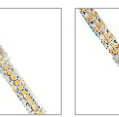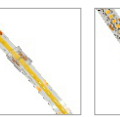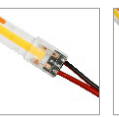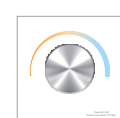1. Prepare the dedicated cable for the crystal connector
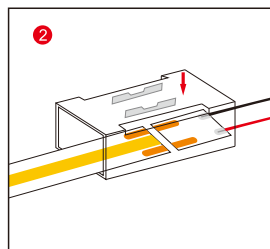
2. Put the light strip and cable into the crystal connector and press down the iron piece
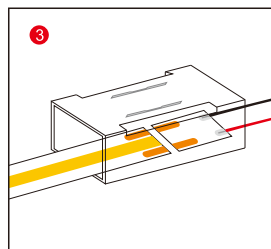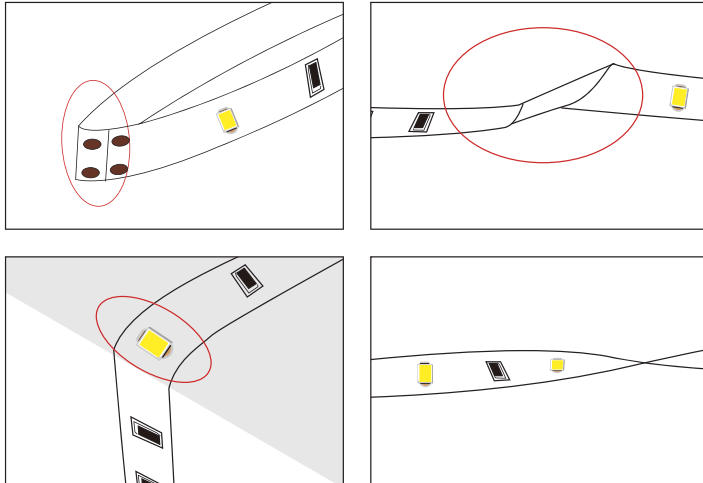

3.Installation is complete, test the light strip

Accessories:

R6

R7

R17

RT 7

T1-K

T2-K

T3-K

T4

T4-1
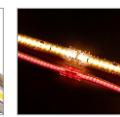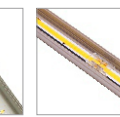
Cautions ⚠️

When install the led strip,please note the installation technique.The led strip can be bent,but not distorted,as shown below.

R ≥ 50mm

Bend(Right)

Distortion(Wrong)

LED strips are low votage products,you must use the power supply(transformer).Please don,t connect the led strip directly to the AC 110v or AC 220v,otherwise it will burn out the LED strips.
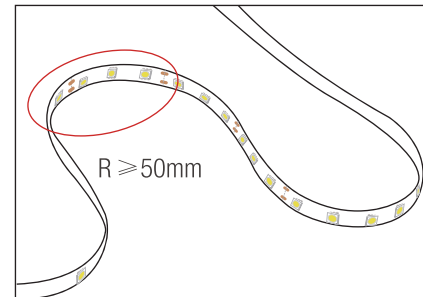
Clean up the installation surface,it will ensure the reliability of the adhesive,The electrical connection process must be operated by a professional person.

Packing :

LED Strip

Anti-static bag

CAUTION
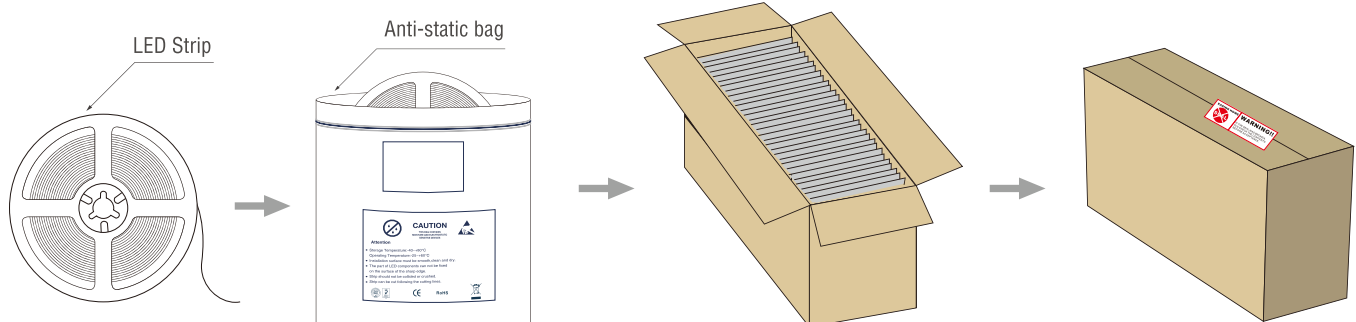
Notice:

1、Please apply different IP rate products according to different environment conditions;

2、Adopt suitable power supply to match the LED strips. Power is 20% bigger than max power of LED strips to ensure long time performance of power supply;

3、Do not install it when power is on. Before powering on, please make sure the wiring is correct;

4、Avoid privately changing or damaging the circuit or other component on the strip;

5、Avoid scrape or bending during installation, it might be damaged with non repairable status;

6、Strip linked in over long length would lead to problem of overload or uneven brightness;

7、To protect your eyes, do not stare at the light for a long time while it's illuminated;

8、Only professional personnel can install, dismantle and repair;

9、Choose different connectors and controllers according to your different strip.